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(US). THOMPSON, Matthew, S. [US/US]; Apartment 424, 800 North Smith Road, Bloomington, IN 47408 (US).

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(74) Agent: MICHAEL, Jeffrey, A.; Barnes & Thornburg LLP, 11 South Meridian Street, Indianapolis, IN 46204 (US).

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(71) Applicant (for all designated States except US): INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION [US/US]; 351 West 10th Street, Indianapolis, IN 46202 (US).

(72) Inventors; and

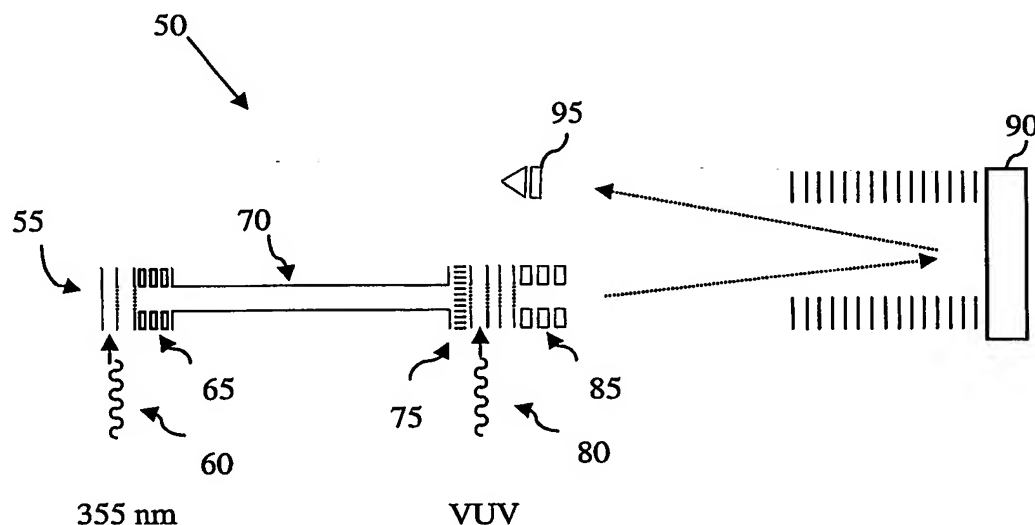
(75) Inventors/Applicants (for US only): REILLY, James, P. [US/US]; 1001 South Nota Drive, Bloomington, IN 47401

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(54) Title: METHODS AND APPARATUS FOR MASS SPECTRAL ANALYSIS OF PEPTIDES AND PROTEINS



(57) Abstract: Apparatus, devices, and methods for fragmenting high molecular weight molecular ions, such as peptides or proteins, by treating the ions with predetermined wavelengths of light are described. Vacuum ultraviolet radiation as a source of predetermined wavelengths of laser light is described in one embodiment. Apparatus, devices, and methods using predetermined wavelengths of laser light are described for the selective cleavage of certain bond types, and the subsequent sequencing of unknown peptides or proteins by fragmentation.



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